

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

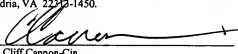
In re Application of: **Ryoichi Asai**  
Serial No.: **10/551,156**  
Filed: **09/28/2005**  
Entitled: **Methods For Obtaining Aptamers Using Microarray**

Group No.:  
Examiner:

**INFORMATION DISCLOSURE STATEMENT**

**MS PCT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

<b>CERTIFICATE OF TRANSMISSION UNDER 37 C.F.R. § 1.8(a)(1)(i)(A)</b>	
<small>I hereby certify that this correspondence (along with any referred to as being attached or enclosed) is, on the date shown below, being deposited with the U.S. Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.</small>	
Dated: <u>January 25, 2007</u>	By:  Cliff Cannon-Cin

Dear Sir or Madam:

The citations listed below, copies attached, may be material to the examination of the above-identified application, and are therefore submitted in compliance with the duty of disclosure defined in 37 C.F.R. § 1.56 and § 1.97. Also attached for the Examiner's convenience is an English translation of the International Search Report and International Preliminary Examination Report of the parent International Application No. PCT/JP2004/004102, as a concise explanation of relevance of the publications not in published in English, cited therein and below.

The Examiner is requested to make these citations of official record in this application:

- International Publication No. WO 99/11818 of Karube *et al.*, "Method for detecting highly functional polypeptides or nucleic acids," (1999) in Japanese with English abstract;
- International Publication No. WO 01/51663 of Bass *et al.*, "Integrated systems and methods for diversity generation and screening," (2001) provided by WIPO;

- International Publication No. WO 01/57259 of Ellington, "Signaling aptamers that transduce molecular recognition to a differential signal," (2001) provided by WIPO;
- International Publication No. WO 01/69247 of Carlsson *et al.*, "Methods of making and using microarrays of biological materials," (2001) provided by WIPO;
- JP 2000-308487 of Murakami *et al.*, "Selection of primer base sequence and apparatus therefore," (2000), in Japanese accompanied by computerized English translation;
- JP 2002-508191 of Gold *et al.*, "Nucleic acid ligand diagnostic biochip," (2002) provided by WIPO;
- JP 2002-207026 of Ito *et al.*, "Nucleic acid aptamer self-integrated biosensor and chip device equipped therewith as detection part," (2002), in Japanese accompanied by computerized English translation;
- JP 2003-508729 of Stanton *et al.*, "Nucleic acid-based detection," (2003) provided by WIPO;
- Asai *et al.*, "In vitro selection of DNA aptamers on chips using a method for generating point mutations," *Anal Lett*, 37:645-656, (2005), provided by WIPO;
- Brody and Gold, "Aptamers as therapeutic and diagnostic agents," *J Biotechnol*, 74:5-13 (2000);
- Ellington and Szostak, "In vitro selection of RNA molecules that bind specific ligands," *Nature*, 346:818-822 (1990);
- Tuerk and Gold, "Systematic evolution of ligands by exponential enrichment: RNA ligands to bacteriophage T3 DNA polymerase," *Science*, 249:505-510 (1990);
- Walter *et al.*, "High-throughput protein arrays: prospects for molecular diagnostics," *Trends Mol Med*, 8:250-253 (2002); and
- Yokobayashi *et al.*, "Directed evolution of trypsin inhibiting peptides using a genetic algorithm," *J Chem Soc*, 1:2435-2437 (1996).

This Information Disclosure Statement under 37 C.F.R. § 1.56 and § 1.97 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art.

Dated: January 25, 2007

By: \_\_\_\_\_



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U.S. Department of Commerce  
Patent and Trademark Office

Attorney Docket, SHIMIZU-10070

Serial No.: 10/551,156

**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**  
(Use Several Sheets If Necessary)

(37 CFR § 1.98(b))

**Applicant:** Ryoichi Asai

Filing or 371(c) Date: 09/28/2005

Group Art Unit:

## U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Serial / Patent Number	Issue Date	Applicant / Patentee	Class	Subclass	Filing Date

**FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS**

[illegible]

## OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

[illegible]

Examiner: /Dana Shin/

Date Considered: 04/02/2008

**EXAMINER:** Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /DS/